

Utah Water Supply Outlook Report

Mar, 2005



Highway 14 near Duck Creek Ranger Station, February 25, 2005. Photo by Lynn Kitchen, NRCS, USDA.

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

Vane O. Campbell, Area Conservationist, 340 N. 600 E., Richfield, UT 84701 - Phone: (435) 896-6441 Todd C. Nielson, Area Conservationist, 302 E. 1860 S., Provo, UT 84606 - Phone: (801) 377-5580

Barry Hamilton, Area Conservationist, 540 W, Price River Dr. Price, UT 84501-2813 - Phone: (435) 637-0041

Snow Survey Staff, 245 N Jimmy Doolittle Rd, SLC Utah, 84041 - Phone: (801)524-5213

Internet Address: http://www.ut.nrcs.usda.gov/snow/

How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Ave., SW, Washington, D.C., 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

STATE OF UTAH GENERAL OUTLOOK Mar 1, 2005

SUMMARY

One month left in the normal snowpack accumulation season and we are all reminded what happened last March - incredibly warm and dry. Could we have a repeat of last years disaster and what would it mean for this years water supply. Given record snowpacks in southern Utah and the Uintah basin, a warm dry March would certainly lessen the potential for high streamflows by extending the snowmelt period and removing some of the lower elevation snowpack early on. This kind of climatic scenario could lead other parts of Utah, specifically northern and central, to the same kind of result experienced last year where snowpacks were near to above average and were subsequently devastated by a record warm and dry March. So, if it's not too much to ask, warm and dry in the south and Uintah Basin with wet and cool in the central and northern areas would be just perfect. Overall, water supply conditions are improving statewide compared to years past with reservoir storage on the upswing, soil moisture is vastly improved and snowpacks are all above average. Snowpacks range from 103% over the Bear River Watershed to 237% over southwest Utah. The Uintah Basin at 157% of average is a new record high for March, but incredibly, the 237% in southern Utah is now only in second place to 1993. Many areas have already exceeded an average April 1 peak snowpack such as: Uintah Basin - 129% of average April 1 peak, Sevier - 136%, Southeast - 121% and the Southwest - 211% of April 1. With record snowpacks, comes the potential for very high snowmelt streamflow. For some streams like Coal Creek which has over 297% of average snowpack and has broken the old maximum record snowpack by 6.5 inches of snow water equivalent, it is likely not if, but merely when the high flows will occur. This is the equivalent of breaking the 4 minute mile by 30 seconds. Normally, long term climate records are broken by fractions of inches or tenths of degrees, not shattered by half a foot! While many outcomes remain possible in these areas, it is prudent to begin preparation for potentially high snowmelt streamflow this spring. Precipitation for February was near average statewide at 101%. Northern Utah ranged from 80% to 110% and southern Utah had 115% to 165% of average. This brings the seasonal precipitation, (Oct-Feb) to 145%. Soil moisture was substantially recharged from large precipitation events in late fall and early winter as well as the recent precipitation events. Current soil moisture as a percent of saturation across the entire state is only about 10% to 15% less than what it was during active snowmelt of last spring. Estimates of soil moisture range from about 40% to 75% of saturation in the upper 24 inches of soil. Low reservoir storage is becoming less of a concern with total reservoir storage at 45% of capacity. up 4% from last year. The area of greatest drought concern is the Bear River with current reservoir storage at only 4% of capacity. Areas that could have high streamflows include the Uintah Basin, southeast Utah, Escalante, upper Sevier and the Virgin. Streamflow forecasts range from 51% to 299% of average. Surface Water Supply Indices range from 4% on the Bear River, to 95% on the Virgin.

SNOWPACK

February first snowpacks as measured by the NRCS SNOTEL system range from 103% on the Bear to 237% in southwestern Utah. Most areas in northern Utah are 10% to 20% higher than last year, whereas the Uintah Basin and everything south of Salina have 150% to 200% of the snowpacks of last year. The Midway Valley SNOTEL site currently has 58 inches of snow water equivalent and its April 1 average peak is only 27 inches. Of some concern are low elevation snowpacks across the state, which are below average. The Uintah Basin, Upper Sevier and southwest Utah have already surpassed their April 1 snowpack average and could easily be in the 150% to 200% of average category by April 1. Any outcome is still possible in northern Utah, including continued drought conditions.

PRECIPITATION

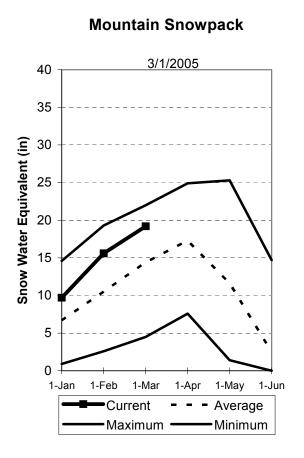
Mountain precipitation during February was much above average over southern Utah (115%-165%). In northern Utah, precipitation was 80% to 102% of average. This brings the seasonal accumulation (Oct-Feb) to 145% of average statewide.

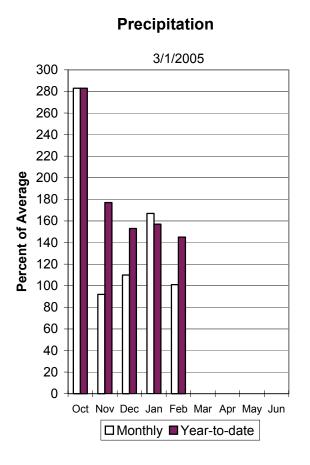
RESERVOIRS

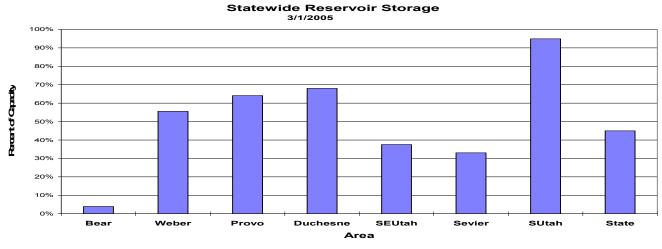
Storage in 41 of Utah's key irrigation reservoirs is at 45% of capacity. This is an increase of 4% from last year and reflects heavy use of reservoir storage to make up the streamflow deficit during years of drought.

STREAMFLOW

Snowmelt streamflows are expected to be below average to well above average across the state of Utah this year. Forecast streamflows range from 51% on the Bear at Stewart dam to 299% on North Creek near Monticello. Most flows are forecast to be in the 100% to 160% range. Overall water supply conditions are improving.



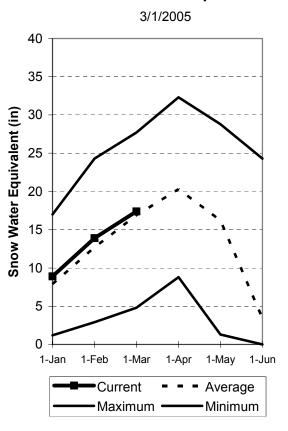




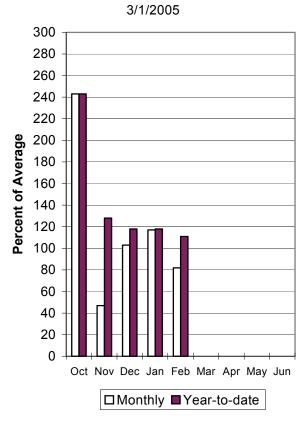
Bear River Basin Mar 1, 2005

Snowpacks on the Bear River Basin are near average at 103% of normal, about 112% of last year and 6% less than last month. Specific sites range from 72% to 142% of normal. February precipitation was a little below average at 82%, which brings the seasonal accumulation (Oct-Feb) to 111% of average. Soil moisture levels in runoff producing areas are at 68% of saturation in the upper 2 feet of soil compared to 33% last year and up 1% from last month. Forecast streamflows range from much below to near average (47%-115%) volumes this spring. Reservoir storage is extremely low at 4% of capacity, the same as last year. The Surface Water Supply Index is at 4% for the Bear River, or 96% of years have had more total water available. Water supply conditions are much below normal due to low reservoir storage.

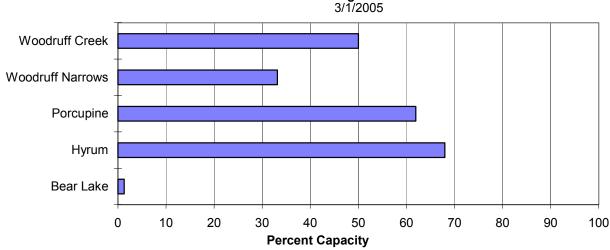
Bear River Snowpack



Bear River Precipitation



Reservoir Storage



BEAR RIVER BASIN Streamflow Forecasts - March 1, 2005

		i	Drier ====						
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)	1	Of Exceed 50% AF) (%	١	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bear River nr UT-WY State Line	APR-JUL	97	114	12	6	112	138	155	113
Bear River ab Reservoir nr Woodruff	APR-JUL	109	137	 15	6	115	175	205	136
Big Creek nr Randolph	APR-JUL	2.50	3.60	4.3	0	88	5.00	6.10	4.90
Smiths Fork nr Border	APR-JUL	68	82	 9	1	88	100	114	103
Bear River at Stewart Dam	APR-JUL	66	96	11	9	51	145	187	234
Little Bear River at Paradise	APR-JUL	23	32	, , 3	8	83	45	57	46
Logan River nr Logan combined flow	APR-JUL	87	105	11	8	94	132	154	126
Blacksmith Fork nr Hyrum	APR-JUL	28	38	 4 	6	96 	55	69	48
BEAR RIV	ER BASIN					F	BEAR RIVER BA	STN	

	EAR RIVER BASIN e (1000 AF) - End		-	 	BEAR RIVER BASIN Watershed Snowpack Analysis - March 1, 2005					
Reservoir	Usable Capacity 	*** Usa This Year	ble Storag Last Year	Avg	Watershed	Number of Data Sites		r as % of 		
BEAR LAKE	1302.0	17.0	34.4		BEAR RIVER, UPPER (abv	На 6	127	109		
HYRUM	15.3	10.4	8.4	11.0	BEAR RIVER, LOWER (blw	На 8	105	98		
PORCUPINE	11.3	7.0	6.0	5.6	LOGAN RIVER	4	119	111		
WOODRUFF NARROWS	57.3	19.0	7.5	27.6	RAFT RIVER	1	61	73		
WOODRUFF CREEK	4.0	2.0	2.0		BEAR RIVER BASIN	14	113	103		

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

Weber and Ogden River Basins Mar 1, 2005

Snowpack on the Weber and Ogden Watersheds is slightly above normal at 115% of average, about 112% of last year and down 12% from last month. Individual sites range from 85% to 170% of average. February precipitation was below average at 86% bringing the seasonal accumulation (Oct-Feb) to 111% of average. Soil moisture levels in runoff producing areas are at 69% of saturation in the upper 2 feet of soil compared to 30% last year and the same as last month. Streamflow forecasts range from 91% to 121% of average. Reservoir storage is at 56% of capacity, about 19% more than last year. The Surface Water Supply Index is at 49% for the Weber River and at 49% for the Ogden River. Overall water supply conditions are near normal and improving.

Weber River Snowpack 3/1/2005

1-Feb

1-Mar

Current

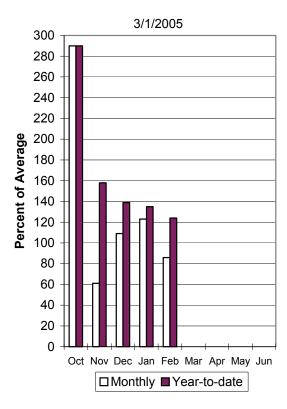
Maximum

1-May

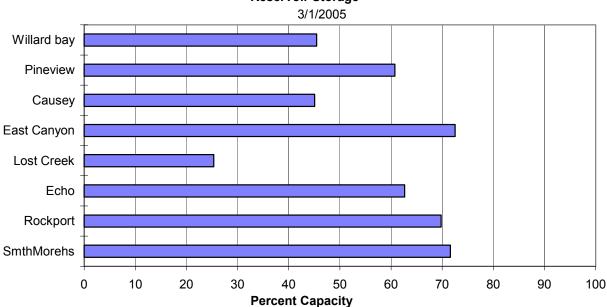
Average Minimum

1-Apr

Weber River Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah Streamflow Forecasts - March 1, 2005

		<<=====	Drier ====	== Future Co	onditions ==	====== Wetter	====>>	
Forecast Point	Forecast Period 	90% (1000AF)	70% (1000AF)	= Chance Of E 50 (1000AF)	_	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Smith & Morehouse Res inflow	APR-JUL	29	34	 37	109	 40	4 5	34
Weber River nr Oakley	APR-JUL	109	126	 137 	111	 148	165	123
Rockport Reservoir inflow	APR-JUL	110	134	 150	112	 166	188	134
Weber River nr Coalville	APR-JUL	119	147	 155	113	 190	225	137
Chalk Creek at Coalville	APR-JUL	31	42	l 49	109	l 56	67	45
Echo Reservoir inflow	APR-JUL	148	180	200	112	l 220	250	179
Lost Creek Reservoir inflow	APR-JUL	9.1	13.0	16.0	91	 19.3	25	17.6
East Canyon Reservoir inflow	APR-JUL	23	29	 33	107	l 38	45	31
Weber River at Gateway	APR-JUL	285	350	390	110	I I 430	495	355
SF Ogden River nr Huntsville	APR-JUL	42	55	l 63	98	 71	84	64
Pineview Reservoir inflow	APR-JUL	83	108	l 125	94	 142	167	133
Wheeler Creek nr Huntsville	APR-JUL	5.30	6.70	 7.60 	121	 8.50 	9.90	6.30

WEBER & OGDEN W. Reservoir Storage (100			ary	 	WEBER & OGDEN WATERSHEDS in Utah Watershed Snowpack Analysis - March 1, 2005						
Reservoir	Usable Capacity	*** Usal This Year	ble Storag Last Year	re *** Avg	Watershed	Number of Data Sites		r as % of ======= Average			
CAUSEY	7.1	3.2	2.4	2.6	OGDEN RIVER	4	100	102			
EAST CANYON	49.5	35.9	26.2	35.4	WEBER RIVER	9	106	123			
ECHO	73.9	46.3	42.0	51.0	WEBER & OGDEN WATERSHI	EDS 13	104	115			
LOST CREEK	22.5	5.7	4.2	13.9							
PINEVIEW	110.1	66.9	34.7	52.6							
ROCKPORT	60.9	42.5	30.7	33.2							
WILLARD BAY	215.0	97.7	55.5	154.9							

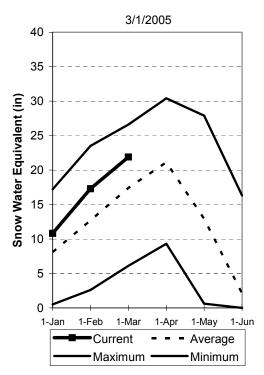
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

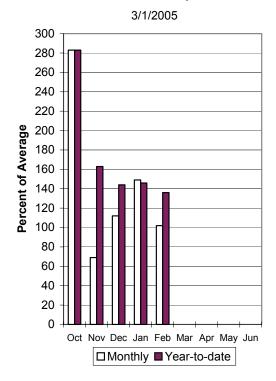
Utah Lake, Jordan River & Tooele Valley Basins Mar 1, 2005

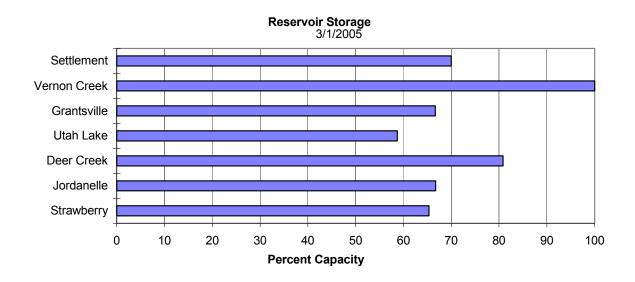
Snowpacks over these watersheds are at 126% of average, 113% of last year and down 15% from last month. Individual sites range from 66% to 172% of average. February precipitation was near average at 102%, bringing the seasonal accumulation (Oct-Feb) to 136% of average. Soil moisture levels in runoff producing areas are at 76% of saturation in the upper 2 feet of soil compared to 38% last year and up 1% from last month. Forecast streamflows range from 84% to 150% of average. Reservoir storage is at 64% of capacity, 1% more than last year. The Surface Water Supply Index is at 49%, or 51% of years would have more total water available. General water supply conditions are near normal and improving.

Provo River Snowpack



Provo River Precipitation





UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - March 1, 2005

	 			== Future Co			: ====>> 	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	= Chance Of E 50 (1000AF))% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL	42	62	 	110	 109	128	77
Provo River nr Woodland	APR-JUL	91	108	 120	117	 132	149	103
Provo River nr Hailstone	APR-JUL	92	116	 130	119	 145	168	109
Provo R blw Deer Creek Dam	APR-JUL	96	128	 150	119	 172	205	126
American Fk R nr American Fk	APR-JUL	39	45	 48	150	 51	57	32
Utah Lake inflow	APR-JUL	255	334	I 405	125	l 476	555	325
Little Cottonwood Ck nr SLC	APR-JUL	44	49	l 53	133	l 57	62	40
Big Cottonwood Ck nr SLC	APR-JUL	43	49	l 53	140	l 57	63	38
Mill Creek nr SLC	APR-JUL	4.30	5.82	 7.00	100	 8.18	9.70	7.00
Parley's Creek nr SLC	APR-JUL	6.2	10.3	 14.0	84	 17.7	22	16.7
Dell Fork nr SLC	APR-JUL	1.97	4.36	 5.80	85	 7.24	9.70	6.80
Emigration Creek nr SLC	APR-JUL	0.50	2.32	l 3.70	82	 5.08	6.90	4.50
City Creek nr SLC	APR-JUL	5.10	6.35	 8.00	92	 9.65	12.90	8.70
Vernon Creek nr Vernon	APR-JUL	0.84	1.14	 1.40	95	l 1.72	2.33	1.48
Settlement Creek nr Tooele	APR-JUL	1.16	1.57	 1.90	96	l 2.27	2.91	1.97
South Willow Creek nr Grantsville	APR-JUL	2.80	3.70	 4.20 	130	 4.70 	5.60	3.23

UTAH	LAKE,	JOF	RDAN	RI	VER	£	TOOE	ELE	VALLEY	
Reservoir	Stora	age	(100	0	AF)	-	End	of	Februar	y

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Watershed Snowpack Analysis - March 1, 2005

Reservoir	Usable Capacity 	*** Usal This Year	ble Stora Last Year	ge *** Avg	Watershed	Number of ta Sites		r as % of Average
DEER CREEK	149.7	121.0	60.3	107.4	PROVO RIVER & UTAH LAKE	7	122	125
GRANTSVILLE	3.3	2.2	1.1	2.2	PROVO RIVER	4	131	134
SETTLEMENT CREEK	1.0	0.7	0.6	0.6	JORDAN RIVER & GREAT SALT	6	106	127
STRAWBERRY-ENLARGED	1105.9	722.5	776.1	637.8	TOOELE VALLEY WATERSHEDS	3	93	126
UTAH LAKE	870.9	511.3	465.2	825.1	UTAH LAKE, JORDAN RIVER &	16	110	126
VERNON CREEK	0.6	0.6	0.5					

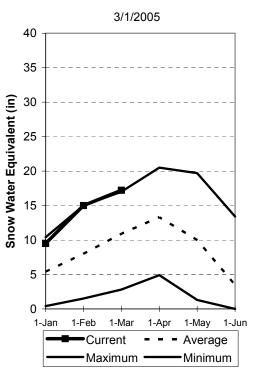
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

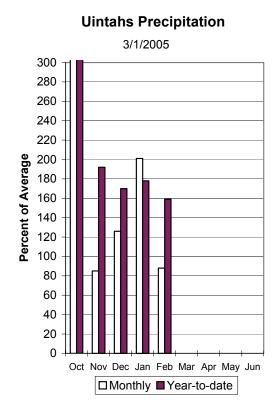
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

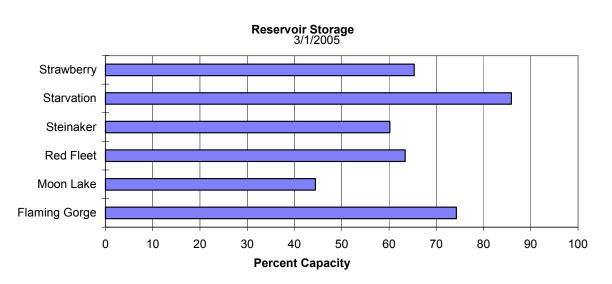
Uintah Basin and Dagget SCD's Mar 1, 2005

Snowpacks across the Uintah Basin and North Slope areas are much above average and above record levels at 157%, which is 147% of last year and down 35% from last month. The North Slope ranges from 88% to 212% and the Uintah Basin ranges from 114% to 239% of average. Precipitation during February was below average at 88% bringing the seasonal accumulation (Oct-Feb) to 159% of average. Soil moisture values in runoff producing areas are at 58% of saturation in the upper 2 feet of soil compared to 30% last year, the same as last month. Reservoir storage is at 68% of capacity, 3% less than last year. The Surface Water Supply Index for the western area is 74% and for the eastern area it is 81% indicating above normal conditions basin wide. Streamflow forecasts range between 84% and 194% of average. Springtime runoff conditions are above normal. Snowpacks are at 129% of normal April 1 values and with normal March accumulations will be near 150% this April. Preparation for high flows should be considered.

Uintahs Snowpack







UINTAH BASIN & DAGGET SCD'S

		<<=====	Drier ====	== Future Co	nditions ===	==== Wetter	Wetter ====>>		
Forecast Point	Forecast Period	 ====== 90% (1000AF)	70% (1000AF)	= Chance Of E: 50 (1000AF)	-	30% (1000AF)	 	30-Yr Avg (1000AF	
Blacks Fork nr Robertson	APR-JUL	67	84	====================================	100	106	123	95	
EF of Smiths Fork nr Robertson	APR-JUL	23	27	I 30	97	34	40	31	
Flaming Gorge Reservoir Inflow	APR-JUL	670	870	1 1000	84	1130	1330	1190	
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	23	27	I 30	143	33	37	21	
Ashley Creek nr Vernal	APR-JUL	65	80	 90	173	100	115	52	
NF DUCHESNE RIVER nr Hanna	APR-JUL	18.6	25	I 30	125	35	44	24	
OUCHESNE R nr Tabiona	APR-JUL	104	119	130	124	141	156	105	
UPPER STILLWATER RESV inflow	APR-JUL	106	117	 125	152	133	144	82	
ROCK CK nr Mountain Home	APR-JUL	114	126	1 135	152	144	156	89	
OUCHESNE R abv Knight Diversion	APR-JUL	215	250	l 275	146	300	335	188	
TRAWBERRY RES nr Soldier Springs	APR-JUL	47	63	l 75	127	88	110	59	
CURRANT CREEK RESV Inflow	APR-JUL	23	27	I 30	120	33	37	25	
STARVATION RESERVOIR inflow	APR-JUL	111	134	 150	124	166	189	121	
Lake Fork River abv Moon Lake	APR-JUL	82	93	1 100	147	107	118	68	
Tellowstone River nr Altonah	APR-JUL	70	85	 95	153	105	120	62	
UCHESNE R at Myton	APR-JUL	340	405	 450	173	495	560	260	
Thiterocks River nr Whiterocks	APR-JUL	73	92	 105	188	118	137	56	
OUCHESNE R nr Randlett	APR-JUL	390	535	l 630	194	725	870	325	

Reservoir Storage (100			uary	 	Watershed Snowpack A			2005	
Reservoir	Usable *** Usable Storage Capacity This Last			age *** 	Watershed	Number Of	This Year as % of		
	 	Year	Year	Avg		ta Sites	Last Yr	Average	
FLAMING GORGE	3749.0	2784.0	2600.0	2919.0	UPPER GREEN RIVER in UTAH	6	124	131	
MOON LAKE	49.5	22.0	16.6	29.8	ASHLEY CREEK	2	150	193	
RED FLEET	25.7	16.3	13.8	18.4	BLACK'S FORK RIVER	2	106	92	
STEINAKER	33.4	20.1	12.8	22.8	SHEEP CREEK	1	111	122	
STARVATION	165.3	142.0	147.0	135.9	DUCHESNE RIVER	11	155	167	
STRAWBERRY-ENLARGED	1105.9	722.5	776.1	637.8	LAKE FORK-YELLOWSTONE CRE	4	164	165	
				!	STRAWBERRY RIVER	4	126	139	
				!	UINTAH-WHITEROCKS RIVERS	2	200	236	
				 	UINTAH BASIN & DAGGET SCD	17	147	157	

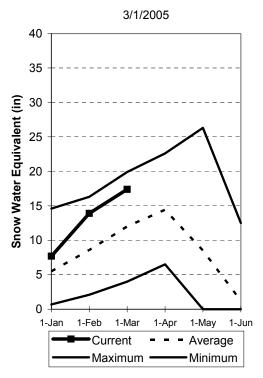
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

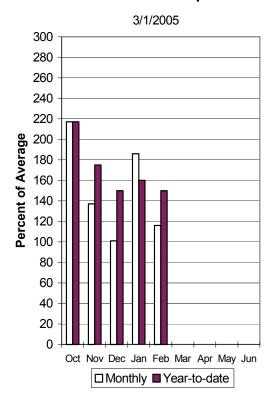
Carbon, Emery, Wayne, Grand and San Juan Co. Mar 1, 2005

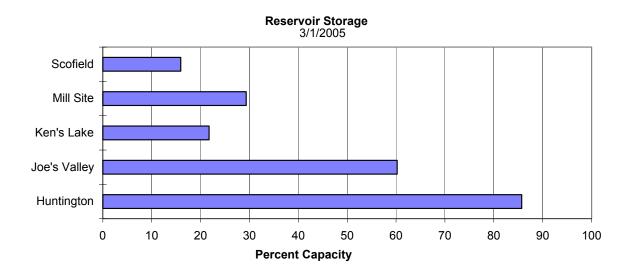
Snowpacks in this region are much above normal at 145% of average, about 139% of last year and down 14% from last month. Individual sites range from 94% to 332% of average. Precipitation during February was above average at 116%, bringing the seasonal accumulation (Oct-Feb) to 150% of normal. Soil moisture estimates in runoff producing areas are at 60% of saturation in the upper 2 feet of soil compared to 30% last year and down 1% from last month. Forecast streamflows range from 92% to xxx% of average. Reservoir storage is at 38% of capacity, the same as last year. Surface Water Supply Indices for the area are: Price 29%, (below normal) San Rafael area 56% (near average) and Moab 58% (near average). General runoff and water supply conditions are below to near normal.

Southeast Utah Snowpack



Southeast Utah Precipitation





CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - March 1, 2005

		 <<	Drier ====	== Future Co	onditions ==	===== Wetter	: ====>>	:=====================================
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)	= Chance Of E 50 (1000AF)		30% (1000AF)	10% (1000AF)	 30-Yr Avg. (1000AF)
Gooseberry Creek nr Scofield	APR-JUL	8.3	11.1		108		17.2	11.9
Scofield Reservoir inflow	APR-JUL	35	42	 46	100	l 50	57	46
White River blw Tabbyune Creek	APR-JUL	11.2	16.1	20	115	 24	31	17.4
Green River at Green River, UT	APR-JUL	1960	2610	3050	96	 3490	4140	3170
Electric Lake inflow	APR-JUL	9.8	13.2	 16.0	102	 19.1	24	15.7
HUNTINGTON CK nr Huntington	APR-JUL	33	41	 46	92	l 51	59	50
JOE'S VALLEY RESV Inflow	APR-JUL	32	47	 57	98	l 67	82	58
Ferron Creek nr Ferron	APR-JUL	28	35	 41	105	l 47	57	39
Colorado River nr Cisco	APR-JUL	3090	4020	 4650	100	l 5280	6210	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	3.90	5.60	6.70	134	l 7.80	9.50	5.00
Seven Mile Creek nr Fish Lake	APR-JUL	3.00	5.70	7.50	107	 9.30	12.00	7.00
Muddy Creek nr Emery	APR-JUL	10.1	16.6	21	106	l 25	32	19.9
North Ck ab R.S. nr Monticello	MAR-JUL	0.66	1.80	2.90	299	 4.26	6.73	0.97
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	2.42	3.31	4.00	292	l 4.75	5.98	1.37
Recapture Ck bl Johnson Ck nr Blandi	MAR-JUL	10.80	13.30	15.00	297	 16.60	19.60	5.05
San Juan River nr Bluff	APR-JUL	1550	1820	 2000 	163	 2180 	2450	1230

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Reservoir Storage (1000 AF) - End of February Watershed Snowpack Analysis - March 1, 2005 Usable | *** Usable Storage *** Number This Year as % of Reservoir This Last Watershed Capacity| Year Year Data Sites Last Yr Average Avg HUNTINGTON NORTH 4.2 3.7 3.4 PRICE RIVER 3 131 121 JOE'S VALLEY 61.6 37.1 33.3 41.5 | SAN RAFAEL RIVER 3 98 101 KEN'S LAKE 2.3 0.5 0.8 1.3 | MUDDY CREEK 109 132 MILL SITE 16.7 4.9 6.1 84.9 | FREMONT RIVER 3 206 218 SCOFIELD 65.8 10.5 14.6 34.8 | LASAL MOUNTAINS 133 131 BLUE MOUNTAINS 190 243 WILLOW CREEK 147 176 CARBON, EMERY, WAYNE, GRA 13 139 145

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

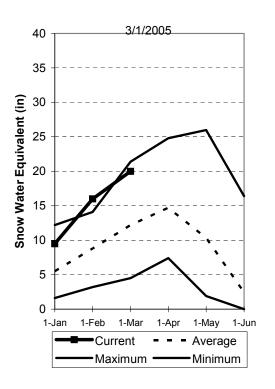
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

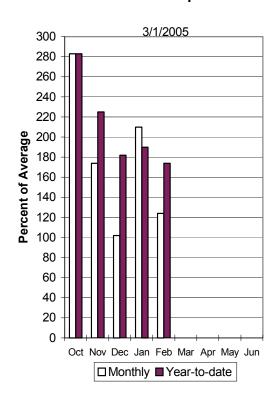
Sevier and Beaver River Basins Mar 1, 2005

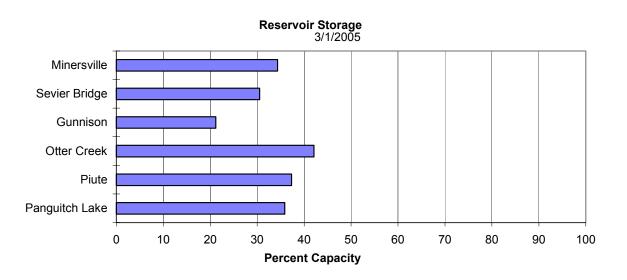
Snowpacks on the Sevier River Basin are much above normal at 164% of average, about 146% of last year and down 19% from last month. The lower Sevier area is near average at 95%. Individual sites range from 66% to 332% of average. Precipitation during February was above average at 124% of normal, bringing the seasonal accumulation (Oct-Feb) to 174% of average. Soil moisture estimates in runoff producing areas are at 68% of saturation (Sevier) in the upper 2 feet of soil compared to 31% last year an up 2% from last month. Streamflow forecasts range from 100% to 264% of average. Reservoir storage is at 33% of capacity, 7% more than last year. Surface Water Supply Indices are: Upper Sevier 80%, Lower Sevier 85% and Beaver 74%. Water supply conditions are above average due to high snowpack and soil moisture. The Sevier is currently at 136% of April 1 average peak and given average March accumulation, will be at 153% this April. On the upper Sevier, preparation for high flows is appropriate.

Sevier River Snowpack



Sevier River Precipitation





SEVIER & BEAVER RIVER BASINS

Streamflow Forecasts - March 1, 2005

	!	<<=====	Drier ====	== Future Co	onditions ==	===== Wetter	====>>	
Forecast Point	Forecast			= Chance Of E	Exceeding * =			
	Period	90% (1000AF)	70% (1000AF)	50 (1000AF))% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
	ا =============	(1000AF)	(1000AF)	(1000AF) ========	(% AVG.)	(1000AF) =========	(1000AF)	(1000AF)
Sevier River at Hatch	APR-JUL	119	136	145	264	155	171	55
Sevier River nr Kingston	APR-JUL	173	196	 210	236	 224	245	89
EF Sevier R nr Kingston	APR-JUL	59	74	I 83	218	I 92	107	38
Sevier R blw Piute Dam	APR-JUL	197	239	 265	210	 291	335	126
Clear Creek nr Sevier	APR-JUL	21	31	 35	159	ו 39	49	22
Salina Creek at Salina	APR-JUL	13.0	19.9	 26	132	 34	47	19.7
Manti Creek at Manti	APR-JUL	13.8	17.2	 20	110	 23	28	18.1
Sevier R nr Gunnison	APR-JUL	250	386	 470	168	ı 554 ı	690	280
Chicken Creek nr Levan	APR-JUL	2.03	3.35	4.50	100	1 5.89 	8.43	4.50
Oak Creek nr Oak City	APR-JUL	1.09	1.49	1.80	108	2.14	2.69	1.66
Beaver River nr Beaver	APR-JUL	30	36	 41	152	 46	54	27
Minersville Reservoir inflow	APR-JUL	14.4	21	i 27 	163	ı 33 	44	16.6
				•		•		

SEVIER & BEA Reservoir Storage (1	AVER RIVER BAS		ary	 	SEVIER & BEAVER RIVER BASINS Watershed Snowpack Analysis - March 1, 2005					
Reservoir	Usable Capacity 	*** Usa This Year	ble Storaç Last Year	re *** Avg	Watershed	Number of Data Sites	This Yea	r as % of Average		
GUNNISON	20.3	4.3	2.5	14.6	UPPER SEVIER RIVER (sou	======= th 8	187	237		
MINERSVILLE (RkyFd)	23.3	8.0	6.5	16.2	EAST FORK SEVIER RIVER	3	187	248		
OTTER CREEK	52.5	22.1	20.6	40.0	SOUTH FORK SEVIER RIVER	. 5	188	232		
PIUTE	71.8	26.8	20.4	53.3	LOWER SEVIER RIVER (inc	lu 6	92	95		
SEVIER BRIDGE	236.0	72.0	56.4	175.6	BEAVER RIVER	2	149	145		
PANGUITCH LAKE	22.3	8.0	4.4	146.8	SEVIER & BEAVER RIVER B	AS 16	148	164		

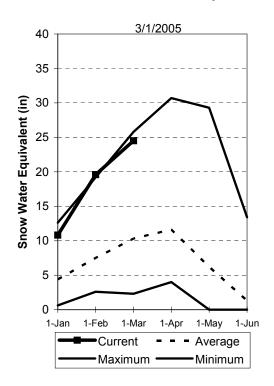
^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

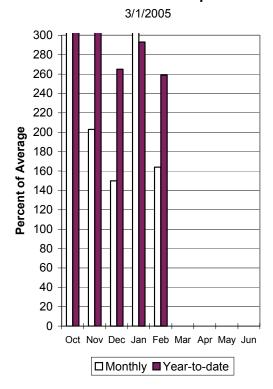
E. Garfield, Kane, Washington, & Iron co. Mar 1, 2005

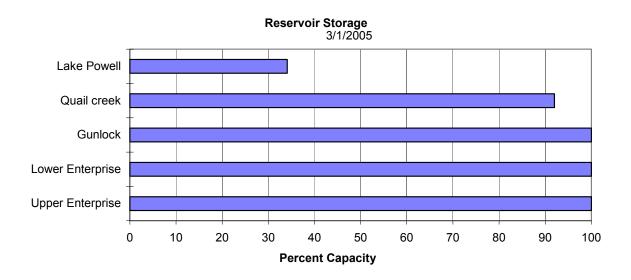
Snowpacks in this region are much above normal at 237% of average, about 206% of last year and down 10% from last month. Individual sites range from 36% to 281% of average. Precipitation was much above normal during February at 164% of average, bringing the seasonal accumulation (Oct-Feb) to 259% of normal. Soil moisture estimates in runoff producing areas are at 76% of saturation in the upper 2 feet of soil compared to 30% last year and the same as last month. Forecast streamflows range from 260% to 282% of average. Reservoir storage is at 95% of capacity, 47% more than last year. The Surface Water Supply Index is at 95%, indicating much above normal water availability. February has heightened concerns over the potential for high flows this spring, some of which have already occurred. This area has 211% of normal April 1 peak and with average March accumulations will be at 222% this April.

Southwest Utah Snowpack



Southwest Utah Precipitation





E. GARFIELD, KANE, WASHINGTON, & IRON Co.

Streamflow Forecasts - March 1, 2005									
Forecast Point	<<===== Drier ===== Future Conditions ====== Wetter ====>>							 	
	Period	90% (1000AF)	70% (1000AF)	50 (1000AF)	_	1	30% L000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Lake Powell inflow	APR-JUL	5700	7430	8600	108	 	9770	11500	7930
Virgin River nr Virgin	APR-JUL	119	147	167	261	į	189	225	64
Virgin River nr Hurricane	APR-JUL	152	179	193	280	į	205	235	69
Santa Clara River nr Pine Valley	APR-JUL	9.82	13.05	15.50	282	1	18.16	22.47	5.50
Coal Creek nr Cedar City	APR-JUL	35	44	 50 	259		57	68	19.3

Reservoir Storage (1000 AF) - End of February					Watershed Snowpack Analysis - March 1, 2005				
Reservoir	Usable Capacity 		able Storaç Last Year	ge *** Avg	Watershed	Number of ata Sites	This Year	as % of Average	
GUNLOCK	10.4	10.4	4.9	4.9	VIRGIN RIVER	5	214	254	
LAKE POWELL	24322.0	8288.0	10569.0	!	PAROWAN	2	226	268	
QUAIL CREEK	40.0	36.8	24.0	29.7	ENTERPRISE TO NEW HARMONY	<i>t</i> 2	110	122	
UPPER ENTERPRISE	10.0	10.0	0.0	!	COAL CREEK	2	218	260	
LOWER ENTERPRISE	2.6	2.6	0.6	90.0	ESCALANTE RIVER	2	221	266	
				 	E. GARFIELD, KANE, WASHIN	1 9	203	237	

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

The average is computed for the 1971-2000 base period.

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

^{* 90%, 70%, 50%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

SNOW COURSE DATA

MARCH 2005

SNOW COURSE	ET EW	האתב	CNOM	ಟನ ಗಾ ರಾ	LAST	AVEDACE
	PTH C	ONTENT	YEAR		LAST	AVERAGE
AGUA CANYON SNOTEL	8900	3/01	64	19.9	10.9	7.3
ALTA CENTRAL	8800	3/01	107	37.4	33.1	
BEAVER DAMS SNOTEL		3/01	26	6.7	9.3	10.2
BEAVER DIVIDE SNOTEL BEN LOMOND PK SNOTEL		3/01	40 103	11.1 33.9	8.4 35.2	10.2 34.3
BEN LOMOND TR SNOTEL		3/01 3/01		19.8	25.1	19.0
BEVAN'S CABIN	6450	2/25	29	9.3	14.8	
BIG FLAT SNOTEL	10290	3/01	80	22.6	13.7	15.0
BIRCH CROSSING	8100	2/24	26	8.1	8.3	6.7
BLACK FLAT-U.M. CK S	9400 9340	3/01		10.7	9.1	8.5 7.8
BLACK'S FORK GS-EF BLACK'S FORK JUNCTN		2/26 2/26		9.0 6.8	8.8 8.7	
BOX CREEK SNOTEL	9800	3/01	58	17.2	13.4	
BRIAN HEAD	10000	2/24	82	30.6	15.3	16.5
BRIGHTON SNOTEL	8750	3/01		27.9	18.6	20.4
BRIGHTON CABIN	8700	3/01	96	33.1	23.4	23.1
BROWN DUCK SNOTEL BRYCE CANYON	10600 8000	3/01	89	28.9	15.5 6.4	15.0 4.9
BUCK FLAT SNOTEL	9800	3/01	50	15.5		
BUCK PASTURE	9700	2/26		16.5	9.8	
BUCKBOARD FLAT	9000	2/24	69	22.7	10.8 15.6	11.0
BUG LAKE SNOTEL	7950	3/01	58	18.1	15.6	17.1
BURT'S-MILLER RANCH		2/26		5.7	5.8	
CAMP JACKSON SNOTEL CASCADE MOUNTAIN SNO		3/01 3/01	79 58	31.3 18.6	16.5 19.0	12.9
CASTLE VALLEY SNOTEL		3/01		25.9	13.8	
CHALK CK #1 SNOTEL	9100	3/01	-	22.6	16.7	19.9
CHALK CK #2 SNOTEL	8200	3/01	47	14.4	11.7	12.9
CHALK CREEK #3	7500	2/26		7.0	6.9	6.8
CHEPETA SNOTEL CLAYTON SPRINGS SNTI	10300	3/01 3/01	75 7 4	27.2 21.7	12.1 12.2	11.4 -
CLEAR CK RIDG #1 SNT		3/01		21.7	16.6	16.7
CLEAR CK RIDG #2 SNT		3/01	-	13.8	12.9	
CORRAL	8200				-	-
CURRANT CREEK SNOTEL		3/01		12.3		
DANIELS-STRAWBERRY S		3/01	57	19.8	16.6	
DILL'S CAMP SNOTEL DONKEY RESERVOIR SNO		3/01 3/01	52 50	16.2 11.2	14.8 5.0	12.3 6.6
DRY BREAD POND SNTL		3/01	56	20.0	16.9	
DRY FORK SNOTEL		3/01	35	9.6	17.6	14.5
EAST WILLOW CREEK SN		3/01	49	12.5	8.5	7.1
FARMINGTON U. SNOTEL		3/01	95	39.5	40.3	27.3
FARMINGTON LOWER SC FARMINGTON L. SNOTEL		2/25 3/01	68 60	22.9 20.6	28.4 30.8	21.2
FARNSWORTH LK SNOTEL		3/01	65	17.8	15.7	
FISH LAKE	8700	2/27	33	9.8	9.1	7.5
FIVE POINTS LAKE SNO	10920	3/01	70	23.1	14.9	13.8
G.B.R.C. HEADQUARTER	8700	2/27	45	14.5	14.3	13.8
G.B.R.C. MEADOWS		2/27	67	23.4	19.6	19.0
GARDEN CITY SUMMIT GARDNER PEAK SNOTEL	8350	2/25 3/01	59 67	19.2 21.6	15.3 -	13.5
GEORGE CREEK	8840	2/24	74	22.6	19.6	17.3
GOOSEBERRY R.S.	8400	2/27	35	10.0	10.2	9.9
GOOSEBERRY R.S. SNTL	7900	3/01	28	8.2	9.4	7.9
GUTZ PEAK SNOTEL	6820	3/01	50	21.5	-	-
HARDSCRABBLE SNOTEL	7250	3/01	54	18.3	20.6	14.3
HARRIS FLAT SNOTEL HAYDEN FORK SNOTEL	7700 9100	3/01 3/01	54 48	19.4 15.9	10.0 10.4	6.9 13.2
HENRY'S FORK	10000	2/26	43	11.1	7.9	10.5
HEWINTA SNOTEL	9500	3/01	33	7.7	8.4	9.1
HICKERSON PARK SNTL	9100	3/01	30	7.1	6.4	5.8
HIDDEN SPRINGS	5500	2/25	4	1.2	9.4	5.9
HOBBLE CREEK SUMMIT HOLE-IN-ROCK SNOTEL	7420 9150	2/27 3/01	45 30	13.8 5.7	12.7 5.8	13.1 5.7
HORSE RIDGE SNOTEL	8260	3/01	62	19.8	18.1	20.2
HUNTINGTON-HORSESHOE		2/27	66	23.4	16.3	19.4
INDIAN CANYON SNOTEL		3/01	59	19.6	11.3	9.6
JOHNSON VALLEY	8850	2/27	37	10.6	7.7	6.4
JONES CORRAL G.S.	9720	0 /0-		1		-
KILFOIL CREEK KILLYON CANYON	7300 6300	2/25 3/01	46 8	14.0 3.2	14.7 12.9	12.4 8.7
SNOW COURSE	ELEV.	DATE	SNOW	3.2 WATER	LAST	8.7 AVERAGE
		ONTENT	YEAR	71-00		

KIMBERLY MINE SNOTEL		3/01	59	16.9	14.9	13.3
KING'S CABIN SNOTEL		3/01	46	16.5	12.3	9.4
KLONDIKE NARROWS KOLOB SNOTEL	7400	2/25	58	17.8	15.8	16.8 17.8
	9250 10100	3/01 3/01	126 69	43.2 19.8	17.0 11.0	10.5
LAKEFORK BASIN SNTL		3/01	72	20.4	14.7	16.6
LAKEFORK MOUNTAIN #3		2/26	40	12.5	8.9	6.1
LAMBS CANYON	7400	2/25	49	13.3	14.7	14.5
LASAL MOUNTAIN LOWER		2/25	38	10.2	8.9	8.1
LASAL MOUNTAIN SNTL		3/01	50		10.5	10.7
LIGHTNING RIDGE SNTI			56	16.2	-	-
LILY LAKE SNOTEL LITTLE BEAR LOWER	9050 6000	3/01 2/25	47 44	13.4 13.4	9.2 14.9	10.8 10.2
LITTLE BEAR LOWER	6550	3/01	44	14.4	13.7	12.8
LITTLE GRASSY SNOTEL		3/01	-	2.1	5.3	5.8
LONG FLAT SNOTEL	8000	3/01	_	14.0	9.3	7.4
LONG VALLEY JCT. SNT		3/01	34	13.0	8.9	5.8
LOOKOUT PEAK SNOTEL	8200	3/01	78	26.1	27.6	20.1
LOST CREEK RESERVOIR	6130	2/25	18	7.5	9.4	5.9
LOUIS MEADOW SNOTEL			44	15.7	22.3	-
MAMMOTH-COTTONWD SNT		3/01	50	17.4	14.7	17.6
MERCHANT VALLEY SNTL		3/01	58	15.7	12.0	11.4
MIDDLE CANYON	7000	2/25	36	11.4	18.7	12.2
MIDWAY VALLEY SNOTEL MILL CREEK	6950	3/01 2/25	145 51	57.7 13.8	23.2 19.5	19.4 16.6
MILL-D NORTH SNOTEL		3/01			22.0	21.0
MILL-D SOUTH FORK	7400	3/01	53	15.0	17.4	16.9
MINING FORK SNOTEL	8000	3/01	58	27.1 15.0 22.4	22.3	14.9
	8960	3/01	73	22.4 25.0 21.7	21.6	24.7
MOSBY MTN. SNOTEL	9500	3/01	72	21.7	12.4	9.3
MT.BALDY R.S.	9500	2/27	65	21.3	18.3	19.9
MUD CREEK #2	8600	2/27	51	15.0 11.9	11.6	12.0
OAK CREEK	7760	2/27	43	11.9	11.4	10.0
PANGUITCH LAKE R.S.	8200	•	45 42	11.9	8.1	4.0
PARLEY'S CANYON SNTL		3/01	42 60	13.0	15.4 28.2	15.3 -
PARRISH CREEK SNOTEL PAYSON R.S. SNOTEL	8050	3/01 3/01	54	20.2 15.2	18.2	
PICKLE KEG SNOTEL	9600	3/01	44	11.2	15.0	14.1
PINE CREEK SNOTEL	8800	3/01	_	18.6	22.4	19.3
RED PINE RIDGE SNTL		3/01	48	13.4	13.8	14.2
REDDEN MINE LOWER	8500	2/26	60	19.8	13.7	15.1
REES'S FLAT	7300	2/27	35	9.7	12.4	11.2
ROCK CREEK SNOTEL	7900	3/01	-	13.8	8.8	7.9
ROCKY BN-SETTLEMT SN		3/01	67	24.9	25.6	21.2
SEELEY CREEK SNOTEL		3/01	48	13.2	13.2	12.3
SMITH MOREHOUSE SNTL SNOWBIRD SNOTEL	9700	3/01 3/01	44 126	14.0 48.6	9.9 35.2	12.4 28.3
SPIRIT LAKE	10300	2/26	58	18.4	11.1	10.5
SQUAW SPRINGS	9300	2/27	40	11.4	8.4	6.6
STEEL CREEK PARK SNO		•	47	12.4	10.6	
STILLWATER CAMP	8550	2/26	37	9.8	7.0	8.8
STRAWBERRY DIVIDE SN		3/01	57	18.6	16.5	16.3
SUSC RANCH	8200	2/25	49	17.6	13.2	8.1
TALL POLES	8800	2/24		17.8	12.3	12.1
TEMPLE FORK SNOTEL	7410	3/01	56	16.4	13.7	-
THAYNES CANYON SNTL THISTLE FLAT	9200 8500	3/01	96	32.9	19.2	19.3
TIMBERLINE	9100				_	_
TIMPANOGOS DIVIDE SN		3/01	96	32.5	21.3	20.4
TONY GROVE LK SNOTEL		3/01	89	35.8	29.2	30.0
TONY GROVE R.S.	6250	2/25	47	14.2	12.0	11.3
TRIAL LAKE	9960	2/26	81	27.5	19.2	20.3
TRIAL LAKE SNOTEL	9960	3/01	75	25.7	16.8	20.6
TROUT CREEK SNOTEL	9400	3/01	54	17.2	10.2	8.1
UPPER JOES VALLEY	8900	2/27	35	9.1	10.5	9.3
VERNON CREEK SNOTEL VIPONT	7500	3/01	43	11.1	15.1	10.1
	7670	2/25	45 70	15.4	17.4 16.0	12.2 13.5
WEBSTER FLAT SNOTEL WHITE RIVER #1 SNTL		3/01 3/01	78 54	27.7 16.2	16.0 11.1	11.6
WHITE RIVER #1 SNIL WHITE RIVER #3	7400	2/27	27	7.7	8.4	7.8
WIDTSOE #3 SNOTEL	9500	3/01	81	32.2	12.2	9.7
WRIGLEY CREEK	9000	2/27	48	13.1	11.7	9.6
YANKEE RESERVOIR	8700	2/24	44	11.8	10.5	8.4

UTAH SURFACE	WATER	SUPPLY	INDEX
Snow Surveys	NRCS	USDA	
Basin or Region	SWSI/%	Percentile	Years with
Feb, 2005			Similar SWSI
Bear River	-3.8	4%	04,03,93
Ogden River	-0.1	49%	67,91,89,93
Weber River	-0.1	49%	70,68,96,98
Provo	-1.0	38%	58,2001,54,66
West Uintah Basin	2.0	74%	76,86,01,00
East Uintah Basin	2.6	81%	84,01,95,98
Price River	-1.7	29%	89,98,62,93
San Rafael	0.5	56%	00,74,82,98
Moab	0.6	58%	94,97,92,98
Upper Sevier River	2.5	80%	58,79,98,84
Lower Sevier River	2.9	85%	99,73,80,86
Beaver River	2.0	74%	68,97,82,84
Virgin River	3.8	95%	88,98,95,93
Snow Surveys			SWSI Scale: -4 to 4
245 N Jimmy Doolittle Rd			Percentile: 0 - 100%
Salt Lake City, UT			
(801) 524-5213			

What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating media water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

For more information on the SWSI go to: www.ut.nrcs.usda.gov/snow/ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.



Issued by

Bruce I. Knight
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Prepared by

Snow Survey Staff
Randall Julander, Supervisor
Ray Wilson, Hydrologist
Timothy Bardsley, Hydrologist
Mike Bricco, Hydrologist
Bob Nault, Electronics Technician

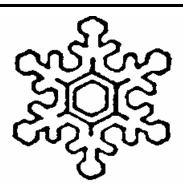
Released by

Sylvia Gillen State Conservationist Natural Resources Conservation Service Salt Lake City, Utah

YOU MAY OBTAIN THIS PRODUCT AS WELL AS CURENT SNOW, PRECIPITATION, TEMPERATURE AND SOIL MOISTURE, RESERVOIR, SURFACE WATER SUPPLY INDEX, AND OTHER DATA BY VISITING OUR WEB SITE @:

http://www.ut.nrcs.usda.gov/snow/

Snow Survey, NRCS, USDA 245 North Jimmy Doolittle Road Salt Lake City, UT 84116 (801) 524-5213



Utah Water Supply Outlook Report

Natural Resources Conservation Service Salt Lake City, UT

